



(19) Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) EP 1 439 392 A3

(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
27.07.2005 Bulletin 2005/30

(51) Int Cl. 7: G01N 33/553, C12Q 1/68

(43) Date of publication A2:
21.07.2004 Bulletin 2004/30

(21) Application number: 04250167.6

(22) Date of filing: 14.01.2004

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PT RO SE SI SK TR
Designated Extension States:
AL LT LV MK

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(30) Priority: 15.01.2003 US 342561

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(54) Biosensor systems and methods for determining the presence of biomolecules

(57) Systems and method for determining the presence of biomolecule are disclosed. Briefly described, a representative biosensor system 100 includes a target complex 150 disposed on a conductive substrate 105. The target complex 150 includes a target biomolecule 115 and a target nanoparticle 125. The target nanoparticle 125 is disposed on the target biomolecule 115. In addition, the biosensor includes an image nanoparticle 135 disposed on the target nanoparticle 125. The image nanoparticle 135 is electrochemically deposited on the target nanoparticle 125. The biosensor system also includes a detector capable of determining the presence of the target biomolecule 115 by detecting the image nanoparticle 135.

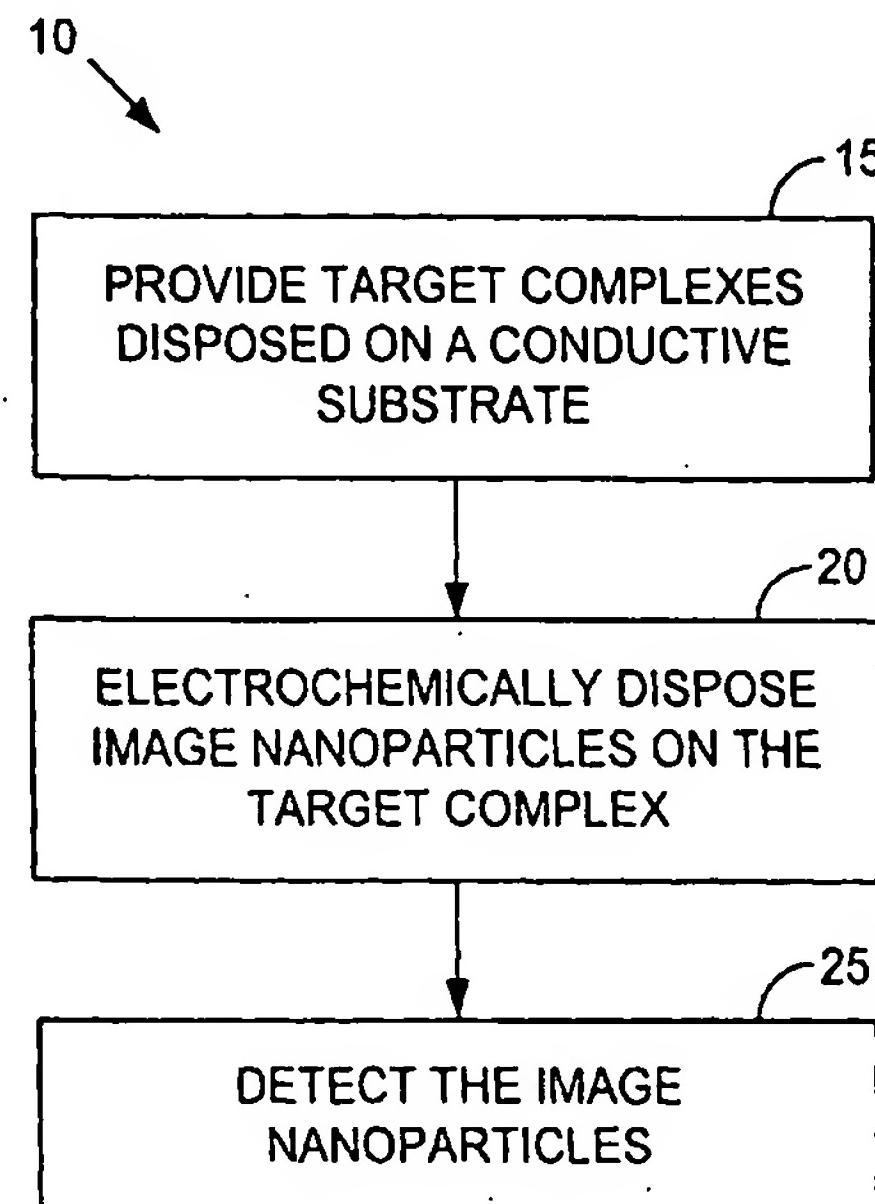


FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 04 25 0167

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2	Place of search	Date of compilation of the search	Examiner
	Munich	6 June 2005	Komenda, P
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X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : member of the same patent family, corresponding document			



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EUROPEAN SEARCH REPORT

Application Number

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<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">CATEGORY OF CITED DOCUMENTS</td> <td style="width: 33%;">T : theory or principle underlying the invention</td> </tr> <tr> <td>X : particularly relevant if taken alone</td> <td>E : earlier patent document, but published on, or after the filing date</td> </tr> <tr> <td>Y : particularly relevant if combined with another document of the same category</td> <td>D : document cited in the application</td> </tr> <tr> <td>A : technological background</td> <td>L : document cited for other reasons</td> </tr> <tr> <td>O : non-written disclosure</td> <td>& : member of the same patent family, corresponding document</td> </tr> <tr> <td>P : intermediate document</td> <td></td> </tr> </table>				CATEGORY OF CITED DOCUMENTS	T : theory or principle underlying the invention	X : particularly relevant if taken alone	E : earlier patent document, but published on, or after the filing date	Y : particularly relevant if combined with another document of the same category	D : document cited in the application	A : technological background	L : document cited for other reasons	O : non-written disclosure	& : member of the same patent family, corresponding document	P : intermediate document	
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ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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